

1 **IN THE CLAIMS**

2 Please add new claims 48-64. This listing of claims will replace all prior versions, and
3 listings, of claims in the subject application:

4
5 --1. - 30. (Cancelled)

6
7 31. (Withdrawn) A method for coating glass for use in a solid state standard, said method
8 comprising the steps of:

9 applying a layer of a first fluorescent material;

10 applying a layer of a second fluorescent material, said second fluorescent material

11 being different from said first fluorescent material;; and

12 applying a layer of a third fluorescent material;

13 wherein each said layer is baked between each said application.

14
15 32. (Withdrawn) A method according to claim 31, wherein said method is used to coat
16 optical glass.

17
18 33. (Withdrawn) A method according to claim 31, wherein said method is used to coat
19 optical quartz.

1 34. (Withdrawn) A method according to claim 31, wherein said layer is selected from a
2 group consisting of BaF₂, CaF₂, CsI, KBr, KCl, KRS-5, NaCl, HFO₂, MgO, Fluroisothiocyanate
3 (FITC), Fluorescene, Rhodamine B, Quinine Sulfate, Bodipy and Green Fluorescent Protein.

4
5 35. (Withdrawn) A method according to claim 31, wherein said first fluorescent material is
6 substantially similar to said third fluorescent material.

7
8 36. (Withdrawn) A method according to claim 31, wherein said fluorescent material has a
9 known absorption wavelength.

10
11 37. (Withdrawn) A method according to claim 31, wherein said baking takes place at
12 approximately at 250 degrees Centigrade.

13
14 38. (Withdrawn) A method for coating glass for use in a solid state standard, said method
15 comprising the steps of:

16 applying a layer of a first absorbent material;

17 applying a layer of a second absorbent material, said second absorbent material

18 being different from said first absorbent material;; and

19 applying a layer of a third absorbent material;

20 wherein each said layer is baked between each said application.

1 39. (Withdrawn) A method according to claim 38, wherein said method is used to coat
2 optical glass.

4 40. (Withdrawn) A method according to claim 38, wherein said method is used to coat
5 optical quartz.

7 41. (Withdrawn) A method according to claim 38, wherein said layer is selected from a
8 group consisting of AgBr, AgCl, Al₂O₃, CdTe, Ge, Si, SiO₂, TiO₂, ZnS, and ZnSe.

10 42. (Withdrawn) A method according to claim 38, wherein said first absorbent material is
11 substantially similar to said third absorbent material.

13 43. (Withdrawn) A method according to claim 38, wherein said absorbent material has a
14 known absorption wavelength.

16 44. (Withdrawn) A method according to claim 38, wherein said baking takes place at
17 approximately at 250 degrees Centigrade.

1 45. (Withdrawn) A method for coating glass for use in a solid state standard, said method
2 comprising the steps of:

3 applying a primary layer of TiO_2 ;

4 applying one or more layers of SiO_2 ; and

5 applying a final layer of TiO_2 ;

6 wherein each layer is baked between said applications.

7
8 46. (Withdrawn) A method according to claim 45, wherein said method is used to coat
9 optical glass.

10
11 46. (Withdrawn) A method according to claim 45, wherein said method is used to coat
12 optical quartz.

13
14 47. (Withdrawn) A method according to claim 45, wherein said baking takes place at
15 approximately at 250 degrees Centigrade.

1 48. (New) A solid state standard comprising:
2 glass coated with a material, said material differing in concentration from said
3 glass linearly in a 20 standard curve;
4 said material having an optical density which can be read in an absorption
5 microplate reader; and
6 said material being such that said reader can read a concentration of a sample at
7 standard curve points.

8
9 49. (New) A solid state standard according to claim 48, wherein said standard comprises
10 coated optical quartz.

11
12 50. (New) A solid state standard according to claim 48, wherein said material is selected
13 from the group consisting of a known fluorescent compound, a known absorbent compound or a
14 known spectroscopic compound.

15
16 51. (New) A solid state standard according to claim 48, wherein said standard is for use with
17 fluorescent spectroscopy.

18
19 52. (New) A solid state standard according to claim 48, wherein said standard is for use with
20 absorbent spectroscopy.

1 53. (New) A solid state standard according to claim 48, wherein said standard is for use with
2 ultra violet spectroscopy.

4 54. (New) A solid state standard according to claim 48, wherein said standard is for use with
5 visible spectroscopy.

7 55. (New) A solid state standard according to claim 48, wherein said standard is for use with
8 Infra-red spectroscopy.

10 56. (New) A solid state standard according to claim 48, wherein said standard is for use with
11 laser spectroscopy.

13 57. (New) A solid state standard according to claim 48, wherein said standard is for use with
14 luminescence spectroscopy.

16 58. (New) A solid state standard according to claim 48, wherein said standard is
17 manufactured by a method for coating glass comprising the steps of:
18 applying a layer of a first absorbent material;
19 applying a layer of a second absorbent material, said second absorbent material
20 being different from said first absorbent material; and
21 applying a layer of a third absorbent material;
22 wherein each said layer is baked between each said application.

1 59. (New) A solid state standard according to claim 58, wherein said method is used to coat
2 optical glass.

3
4 60. (New) A solid state standard according to claim 58, wherein said method is used to coat
5 optical quartz.

6
7 61. (New) A solid state standard according to claim 58, wherein said layer is selected from a
8 group consisting of AgBr, AgCl, Al₂O₃, CdTe, Ge, Si, SiO₂, TiO₂, ZnS, and ZnSe.

9
10 62. (New) A solid state standard according to claim 58, wherein said first absorbent material
11 is substantially similar to said third absorbent material.

12
13 63. (New) A solid state standard according to claim 58, wherein said absorbent material has
14 a known absorption wavelength.

15
16 64. (New) A solid state standard according to claim 58, wherein said baking takes place at
17 approximately at 250 degrees Centigrade.